PTO/SB/08a (07-06) (modified)
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Complete if Known Substitute for form 1449A/PTO Application Number 10/701,992 Filing Date INFORMATION DISCLOSURE November 4, 2003 STATEMENT BY APPLICANT First Named Inventor Hetherton et al. Art Unit 3729 **Examiner Name** Thiem D. Phan (Use as many sheets as necessary) Attorney Docket Number Sheet MP1705-US4

	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number-Kind Code ² (if known)					
		US-2,482,316	09-20-1949	Bocking			
		US-3,221,145	11-30-1965	Hager, Jr.			
		US-3,351,882	11-07-1967	Kohler et al.			
		US-3,435,399	03-25-1969	Gielisse et al.	The state of the s		
		US-3,497,859	02-24-1970	Bang			
		US-3,648,364	03-14-1972	Endo	. , , , , , , , , , , , , , , , , , , ,		
		US-3,775,725	11-27-1973	Endo			
		US-3,835,434	09-10-1974	Kahn			
	***************************************	US-4,088,828	05-09-1978	Yamamoto et al.			
		US-4,200,970	05-06-1980	Schonberger			
		US-4,237,441	12-02-1980	van Konynenburg et al			
		US-4,238,812	12-09-1980	Middleman et al	AND THE RESERVE OF THE PROPERTY OF THE PROPERT		
		US-4,255,698	03-10-1981	Simon	40 Matthia (1904)		
		US-4,272,471	06-09-1981	Walker	10110110110000000000000000000000000000		
		US-4,304,987	12-08-1981	van Konynenburg			
********************************	ļ	US-4,315,237	02-09-1982	Middleman et al			
		US-4,317,027	02-23-1982	Middleman et al			

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶		
		DE-2816593-A1	10-18-1979	Siemens AG (Grube et al.)		Abstract		
		DE-3122612-A1	12-23-1982	Draloric Electronic GmbH (Schurmann)		Abstract		
		DE-3839868-A1	06-08-1989	Murata Mfg. Co., Ltd. (Uchida; US 4,924,204)		counterpart		
		DE-3910861-A1	11-02-1989	Murata Mfg. Co., Ltd. (Uchida; US 4,997,309)		counterpart		

Examiner	Date	
Signature	Considered	
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)	0.1.05.1000			
		US-4,327,351	04-27-1982	Walker		
		US-4,330,703	05-18-1982	Horsma et al		
		US-4,352,083	09-28-1982	Middleman et al		
		US-4,371,860	02-01-1983	May et al.		
	***************************************	US-4,388,607	06-14-1983	Toy et al	**************************************	
		US-4,426,633	01-17-1984	Taylor		
		US-4,434,416	02-28-1984	Schonberger		
***************************************		US-4,445,026	04-24-1984	Walker	WINDOWS IN THE PROPERTY OF THE	
	***************************************	US-4,463,407	07-31-1984	Berger et al.		
	, 	US-4,475,138	10-02-1984	Middleman et al		
		US-4,486,737	12-04-1984	Ott		
		US-4,486,738	12-04-1984	Sadlo et al.	**************************************	
	······	US-4,514,620	04-30-1985	Cheng et al		
		US-4,529,960	07-16-1985	Uchida et al.		
	····	US-4,534,889	08-13-1985	van Konynenburg et al		
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	·····	US-4,560,498	12-24-1985	Horsma et al		

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т ⁶
		DE-4000089-A1	07-12-1990	Mitsubishi Denki KK (Otsubo; US 5,017,243)		counterpart
		DE-8716103-U1	03-03-1988	Degussa AG		⊠ partial
		EP- 0509582-A2	10-21-1992	N.V. Philips Gloeilampenfabrieken (Schat)		N/A
		EP-0223404-A1	05-27-1987	Raychem Corporation (Kleiner et al.)		N/A

Examiner	Date	
Signature	Considered	

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Emperor must precede the senal number of the patent document. "Nino or document of vine appropriate symbols as inflicated on the document of the patent occument. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) and application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademarks Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	Substitute for form 1449	PA/PTO	Complete if Known	
			Application Number	10/701,992
	INFORMATION DIS	CLOSURE	Filing Date	November 4, 2003
	STATEMENT BY A	PPLICANT	First Named Inventor	Hetherton et al.
			Art Unit	3729
	(Use as many sheets as n	ecessary)	Examiner Name	Thiem D. Phan
Sheet	3	of 10	Attorney Docket Number	MP1705-US4

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)				
		US-4,591,700	05-27-1986	Sopory		
		US-4,593,181	06-03-1986	Jensen et al.		
		US-4,605,471	08-12-1986	Mitchell		
		US-4,660,017	04-21-1987	Momoki et al.		
		US-4,689,475	08-25-1987	Matthiesen	**************************************	
		US-4,706,060	11-10-1987	May		
		US-4,714,910	12-22-1987	Schwingenschuh et al.	**************************************	
.,,		US-4,724,417	02-09-1988	Au et al		
		US-4,757,298	07-12-1988	Nishikawa et al.		
	***************************************	US-4,757,581	07-19-1988	Yamada et al.		
	***************************************	US-4,774,024	09-27-1988	Deep et al		
		US-4,777,718	10-18-1988	Henderson et al.		
		US-4,780,598	10-25-1988	Fahey et al		
***************************************		US-4,786,888	11-22-1988	Yoneda et al.	**************************************	
	***************************************	US-4,788,523	11-29-1988	Robbins		
		US-4,800,253	01-24-1989	Kleiner et al		
		US-4,801,784	01-31-1989	Jensen et al.		

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т6		
		EP-0308306-A1	03-22-1989	Compagnie Europeenne de Composants Electroniques LCC (Mallez et al.)		Abstract		
		EP-0398811-A2	11-22-1990	Fujikura Ltd. (Yamada et al.)		N/A		
		EP-0649562-B1	03-04-1998	Raychem Corporation (Graves et al.)		□ N/A		

Examiner	Date	
Signature	Considered	

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	Substitute for form 1449	•		inless it contains a valid OMB control number plete if Known
			Application Number	10/701,992
INFORMATION DISCLOSURE			Filing Date	November 4, 2003
STATEMENT BY APPLICANT		First Named Inventor	Hetherton et al.	
			Art Unit	3729
	(Use as many sheets as ne	ecessary)	Examiner Name	Thiem D. Phan
Sheet	4	of 10	Attorney Docket Number	MP1705-US4

	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number-Kind Code ² (if known) US-4,811,164	03-07-1989	Ling et al.			
		US-4,845,838	07-11-1989	Jacobs et al			
		US-4,861,966	08-29-1989	Matthiesen et al.			
		US-4,873,508	10-10-1989	Ankenman et al.			
		US-4,876,439	10-24-1989	Nagahori			
		US-4,882,466	11-21-1989	Friel	**************************************		
		US-4,904,850	02-27-1990	Claypool et al.			
		US-4,907,340	03-13-1990	Fang et al.			
	,	US-4,924,074	05 - 08-1990	Fang et al.	**************************************		
		US-4,924,204	05-08-1990	Uchida	**************************************		
		US-4,924,205	05-08-1990	Caporali et al.	***************************************		
		US-4,935,156	06-19-1990	van Konynenburg et al.			
		US-4,937,551	06-26-1990	Plasko			
		US-4,959,505	09-25-1990	Ott))))///		
		US-4,977,309	12-11-1990	Uchida			
		US-4,992,771	02-12-1991	Caporali et al.			
		US-4,993,142	02-19-1991	Burke et al.			

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т6
		EP-0790625-A2	08-20-1997	Daito Communication Apparatus Co. Ltd. (Sugaya)		N/A
		EP-0955643-A1*	11-10-1999	Matsushita Electric Industrial Co. Ltd.		□ N/A
		GB-1415454-A	11-26-1975	Welwyn Electric Ltd.		N/A
		JP-4-15001-A	05-22-1992	Murata Mfg. Co. Ltd. (Sunahara)		Abstract

Examiner	Date	
Signature	Considered	

or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵Applicant is to place a check mark here if English language Translation is attached.

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	Substitute for form 1449	9A/PT()	Complete if Known		
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•	INFORMATION DIS	CLO	DSURE	Filing Date	November 4, 2003	
	STATEMENT BY APPLICANT			First Named Inventor	Hetherton et al.	
				Art Unit	3729	
	(Use as many sheets as n	ecess	ary)	Examiner Name	Thiem D. Phan	
Sheet	5	of	10	Attorney Docket Number	MP1705-US4	

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		US-5,015,824	05-14-1991	Monter et al.				
} <u></u>		US-5,017,243	05-21-1991	Otsubo				
•		US-5,049,850	09-17-1991	Evans et al.				
····		US-5,057,811	10-15-1991	Strott et al.				
·····		US-5,085,364	02-04-1992	Ishikawa et al.				
		US-5,089,801	02-18-1992	Chan et al.				
·····		US-5,142,263	08-25-1992	Childers et al.				
·		US-5,166,658	11-24-1992	Fang et al.				
		US-5,194,316	03-16-1993	Horner et al				
		US-5,196,136	03-23-1993	Dishart et al				
		US-5,210,516	05-11-1993	Shikama et al				
•		US-5,212,466	05-18-1993	Yamada et al.				
		US-5,216,404	06-01-1993	Nagai et al.				
		US-5,228,188	07-20-1993	Badihi et al				
		US-5,241,741	09-07-1993	Sugaya				
		US-5,247,277	09-21-1993	Fang et al.				
		US-5,258,738	11-02-1993	Schat	MATERIAL PROPERTY OF THE PROPE			

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		JP-49-28594-A	08-03-1974	Matsushita Electric Industries Co. Ltd. (Ishiyama et al.)		⊠ Translation				
		JP-54-73260-A	06-12-1979	Tokyo Denki Kagaku Kogyo KK (Towatari et al.)		⊠ Translation				
		JP-56-150802-A	11-21-1981	TDK (Mano et al.)		⊠ Translation				
		JP-61-124104-A	06-11-1986	Matsushita Electric Industries Co. Ltd (Aikawa)		Translation				

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				Art Unit	3729	
(Use as many sheets as necessary)			ary)	Examiner Name	Thiem D. Phan	
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		US-5,271,548	12-21-1993	Maiwald				
	}	US-5,280,263	01-18-1994	Sugaya				
		US-5,291,535	03-01-1994	Baker et al	**************************************			
		US-5,303,115	04-12-1994	Nayar et al.	THE PROPERTY OF THE PROPERTY O			
		US-5,347,258	09-13-1994	Howard et al.	The state of the s			
		US-5,351,390	10-04-1994	Yamada et al.	**************************************			
		US-5,378,407	01-03-1995	Chandler et al.				
		US-5,382,938	01-17-1995	Hansson et al.	**************************************			
······································	***************************************	US-5,451,919	09-19-1995	Chu et al.				
		US-5,451,921	09-19-1995	Crawford et al.	talan and a same a same and a same a same a same a same			
		US-5,488,348	01-30-1996	Asida et al.				
		US-5,493,266	02-20-1996	Sasaki et al.				
		US-5,582,770	12-10-1996	Chu et al.				
		US-5,747,147	05-05-1998	Wartenberg et al.				
		US-5,763,929	06-09-1998	Iwata				
	••••••	US-5,777,541	07-07-1998	Vekeman				
		US-5,801,612	09-01-1998	Chandler et al.	**************************************			

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		JР-63-216301-A	09-08-1988	Nippon Mektron (Akatsuka et al.)		Translation
***************************************		JP-63-244702-A	10-12-1988	Nippon Mektron (Tanaka)		⊠ Translation
		JP-5-29111-A	02-05-1993	Matsushita Electric Ind. Co. Ltd. (Ebine)		Abstract
		JP-6-283301-A	10-07-1994	Mitsubishi Materials Corp. (Yoshinori)		Abstract

Examiner		Date	
Signature		Considered	
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	Substitute for form 1449	A/PT		Complete if Known		
				Application Number	10/701,992	
	INFORMATION DIS	CLO	DSURE	Filing Date	November 4, 2003	
STATEMENT BY APPLICANT			.ICANT	First Named Inventor	Hetherton et al.	
				Art Unit	3729	
	(Use as many sheets as n	ecess	ary)	Examiner Name	Thiem D. Phan	
Sheet	7	of	10	Attorney Docket Number	MP1705-US4	

	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US-5,818,676	10-06-1998	Gronowicz, Jr.			
·····		US-5,831,510	11-03-1998	Zhang et al.			
		US-5,852,397	12-22-1998	Chan et al.			
		US-5,864,281	01-26-1999	Zhang et al	***************************************		
		US-5,907,271	05-25-1999	Hirano			
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		US-5,907,273	05-25-1999	Ross, Jr. et al.	,		
	•••••••••	US-6,020,808	02-01-2000	Hogge	**************************************		
		US-6,104,587	08-15-2000	Banich et al.			
	·····	US-6,130,597	10-10-2000	Toth et al.) (1884-1886) 		
		US-6,172,591-B1	01-09-2001	Barrett			
		US-6,188,308	02-13-2001	Kojima et al.			
		US-6,297,722-B1	10-02-2001	Yeh			
		US-6,331,763-B1	12-18-2001	Thomas et al.			
		US-6,429,533-B1	08-06-2002	Li et al.			
,		US-6,570,483-B1	05-27-2003	Chandler et al.	1944		
		US-6,606,023	08-12-2003	Chiang et al.			

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Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т6	
		WO 94/01876	01-20-1994	Raychem Corporation (Graves et al.)	N/A	N/A	
		WO 95/08176	03-23-1995	Raychem Corporation (Fang et al.)	N/A	N/A	
		WO 99/45551 **	09-10-1999	Bourns Multifuse Hong Kong Ltd. (Barrett)	N/A	N/A	
		WO84/01259	03-29-1984	Ericsson (Olofsson et al).	N/A	D N/A	

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Examiner	Date	
Signature	Considered	

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				Art Unit	3729	
	(Use as many sheets as n	ecess	ary)	Examiner Name	Thiem D. Phan	
Sheet	8	of	10	Attorney Docket Number	MP1705-US4	

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- •		US-2001-0000658-A1	05-03-2001	Barrett et al.	***************************************
		US-2002-0050914-A1	05-02-2002	Chiang et al.	
	***************************************	US-2002-0130757-A1	09-19-2002	Huang et al.	
		US-2002-0140540-A1	10-03-2002	Chen et al.	
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		WO95/31816	11-23-1995	Raychem Corporation (Zhang et al.)		N/A
		WO95/34084	12-14-1995	Raychem Corporation (Zhang et al.)		N/A
		WO98/12715	03-26-1998	Matsushita Electric Industries Co. Ltd. (Kojima et al.)		N/A
		WO98/29879*	07-09-1998	Matsushita Electric Industries Co. Ltd.		□ N/A

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	(Use as many sheets as n	ecessa	ary)	Examiner Name	Thiem D. Phan
Sheet	9	of	10	Attorney Docket Number	MP1705-US4

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial,	T 2
nitials*	No.1	symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	'
	:	"PolySwitch PTC Devices", Standard Product List, Raychem Corporation, May 1992.	
		"PolySwitch SMD Installation Guidelines" trade brochure, Raychem Corporation, Nov. 1992.	
***************************************		"PolySwitch SMD Surface Mount Devices PTC Overcurrent Protection" trade brochure, Raychem Corporation, Nov. 1992.	
		"Protection of Batteries with PolySwitch Devices", Raychem Corporation, Jan. 1987.	
		Coombs, Printed Circuit Handbook, 1996, p. 24.1 - 24.17, 40.1 - 40.4	
		Harper, <u>Electronic Packaging and Interconection Handbook</u> (1991), p. 1.37 -1.43, 8.3 - 8.5, 8.53 - 8.56, 9.1 - 9.16, 9.41 - 9.49.	
		Patent Abstracts of Japan, vol. 013, no. 198 (E-756), 11 May 1989 & JP 01-020601A (JCG Corp.), 24 January 1989, abstract.	
		Search Report for International Application No. PCT-US00-25118, June 13, 2001.	
		Search Report for International Application No. PCT-US02-39392, May 13, 2003.	
		Search Report for International Application No. PCT-US93-06480, October 7, 1993.	

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Sheet	10	of 10	Attorney Docket Number	MP1705-US4	

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		Search Report for International Application No. PCT-US94-10137, November 23, 1994.				
		Search Report for International Application No. PCT-US95-05567, June 26, 1995.				
***************************************		Search Report for International Application No. PCT-US95-07420, September 4, 1995.				
		Standler, Protection of Electronic Circuits from Overvoltages, 1989, p. 133				
***************************************		Sunahara, JP 40415001A (5-1992), abstract.				
***************************************		U.S. Patent Application No. 07-893626 (Chandler et al.), filed June 5, 1992.				
		U.S. Patent Application No. 08-816,471 (Chandler et al., filed March 13, 1997), now U.S. Patent No. 6,570,483.				
		U.S. Patent Application No. 09-060,278 (Chiang et al., filed April 14, 1998), now U.S. Patent No. 6,606,023.				
		U.S. Patent Application No. 09-181,028 (Graves et al, filed October 27, 1998), now U.S. Patent No. 6,651,315.				
AND POWER STATES OF THE SAME PARTY OF THE SAME P		U.S. Patent Application No. 09-364,504 (Isozaki et al., filed July 30, 1999), now U.S. Patent No. 6,358,438.				

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